Adventures in Aeronautics			
2006 21st Century Mathematics			
Standards and Objectives			
West Virginia 21st Century Mathematics			
Grade 3			
Activity/Lesson	State	Standards	
Adventures in Aeronautics	WV	MA.3.M.O.3.1.1	Read, write, order, and compare numbers to 10,000 using a variety of strategies (e.g., symbols, manipulatives, number line).
Adventures in Aeronautics	WV	MA.3.M.O.3.1.9	Demonstrate and model multiplication (repeated addition, arrays) and division (repeated subtraction, partitioning).
Adventures in Aeronautics	WV	MA.3.M.O.3.1.10	Use and explain the operations of multiplication and division including the properties (e.g., identity element of multiplication, commutative property, property of zero, associative property, inverse operations).
Adventures in Aeronautics	WV	MA.3.M.O.3.1.12	Model the distributive property in multiplication of 2- and 3-digit numbers by a 1-digit number.
Adventures in Aeronautics	WV	MA.3.M.O.3.2.2	Create an input/output model using addition, subtraction, multiplication or division.
Adventures in Aeronautics	WV	MA.3.M.O.3.4.1.c	Within a project based investigation, identify a real life situation, consider a number of variables and use appropriate measurement tools, overtime, make a hypothesis as to the change overtime; with more precision than whole units (weight/mass in pounds and kilograms,)
Adventures in Aeronautics	WV	MA.3.M.O.3.4.4	Read time to 5-minute intervals (am and pm) using analog and digital clocks, compute elapsed time to the quarter-hour using a clock.
Adventures in Aeronautics			
2006 21st Century Mathematics			
Standards and Objectives			
West Virginia 21st Century Mathematics			
Grade 4			
Activity/Lesson	State	Standards	
Adventures in Aeronautics	WV	MA.4.M.O.4.1.1	Read, write, order, and compare whole numbers to the millions place and decimals to thousandths place using a variety of strategies (e.g. symbols, manipulatives, number line, pictorial representations).
Adventures in Aeronautics	WV	MA.4.M.O.4.1.7	Add and subtract whole numbers(up to five –digit number) and decimals to the 1000th place, multiply (up to three digits by two-digits, and divide(up to a three digit number with a one and two-digit number).
Adventures in Aeronautics	WV	MA.4.M.O.4.1.8	Solve multi-digit whole number multiplication problems using a variety of strategies, including the standard algorithm, justify methods used.

Activity/Lesson	State	Standards	
Adventures in Aeronautics	WV	MA.4.M.O.4.4.1	Select appropriate measuring tools, apply and convert standard units within a system to estimate, measure, compare and order real-world measurements including: lengths using customary (to the nearest one-fourth inch) and metric units, weight, capacity, temperature, and justify and present results.
Adventures in Aeronautics	WV	MA.4.M.O.4.4.3	Read time to the minute, calculate elapsed time in hours/minutes within a 24-hour period.
Adventures in Aeronautics			
2006 21st Century Mathematics			
Standards and Objectives			
West Virginia 21st Century Mathematics			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Adventures in Aeronautics	WV	MA.5.M.O.5.1.1	Read, write, order and compare all whole numbers, fractions, mixed numbers and decimals using multiple strategies (e.g., symbols, manipulatives, number line).
Adventures in Aeronautics	WV	MA.5.M.O.5.1.8	Apply the distributive property as it relates to multiplication over addition.
Adventures in Aeronautics	WV	MA.5.M.O.5.1.10	Demonstrate fluency in addition, subtraction, multiplication and division of whole numbers.
Adventures in Aeronautics	WV	MA.5.M.O.5.4.6	Estimate and/or measure the weight/mass of real objects in ounces, pounds, grams, and kilograms.
Adventures in Aeronautics	WV	MA.5.M.O.5.4.7	Collect, record, estimate and calculate elapsed times from real-world situations (with and without technology)